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A NEW SOVIET APPLIANCE FOR BACTERIOLOGICAL ANALYSIS OF THE AIR

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A. Gorbachevskiy,
Designer, "Krasnogvardeyets",
Plant, Leningrad

To determine the effectiveness of measures carried out for the bacteriological purification of the air, a special apparatus must be used. An apparatus of this type helps in the investigation of various means for disinfecting the air. Such an apparatus was designed at the "Krasnogvardeyets" medical-instruments plant, in collaboration with the Chair of General Hygiene, first Leningrad Medical Institute imeni I. P. Pavlov.

The apparatus consists of two assemblies. The main assembly is a cylinder, by means of which air samples are taken. Inside the cylinder is a small electric motor with an air pump. Above the air pump is a small table on which is placed a standard Petri dish filled with a nutrient medium. The top of the cylinder is closed by a cover which has a narrow slit. When the motor is switched on, the air is sucked in through this slit, impinges with force on the surface of the nutrient medium, where it leaves all microorganisms, and is exhausted from the apparatus through a special opening. The second assembly consists of a control panel and a micromanometer. The micromanometer indicates the quantity of air which has passed through the cylinder.

The motor is connected to a network which has a potential of 127 v or 220 v. It has an appliance which prevents interference with radio reception. Extensive clinical tests have demonstrated that the new design has merit.

Continuous production of the new apparatus has been started at the "Krasnogvardeyets" plant.

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